

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P581390

Luminaire Tested: **HC460D010-HM44560940-41WDWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581390  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC460D010-HM44560940-41WDWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4820.3 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

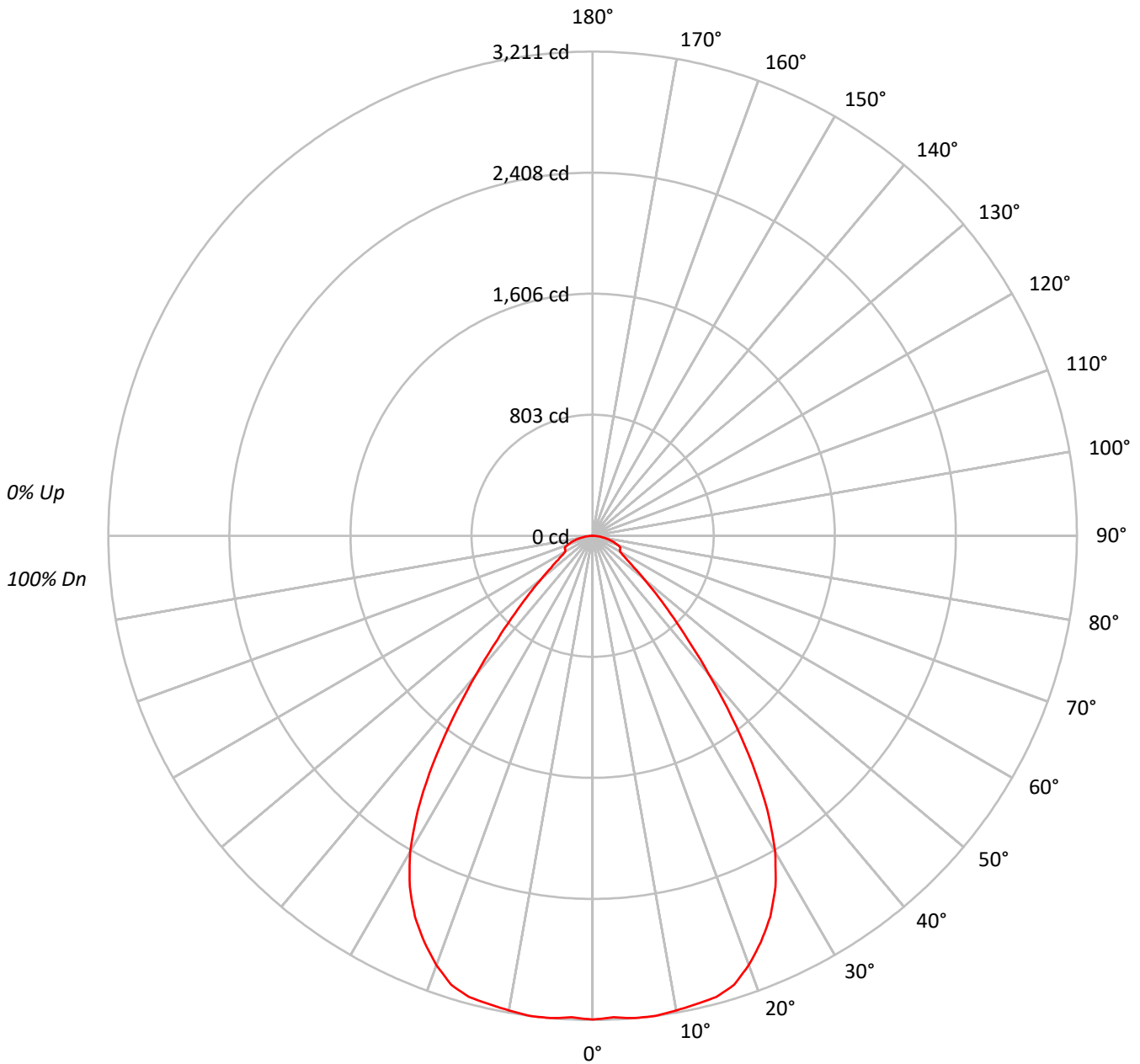
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	395730
5°	397613
10°	400332
15°	404339
20°	397592
25°	379316
30°	344631
35°	277981
40°	192865
45°	126624
50°	84835
55°	60385
60°	51583
65°	59306
70°	63545
75°	61239
80°	55192
85°	50807



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.0	6.3
10°-20°	889.5	18.5
20°-30°	1270.9	26.4
30°-40°	1135.3	23.6
40°-50°	582.3	12.1
50°-60°	264.7	5.5
60°-70°	197.4	4.1
70°-80°	134.3	2.8
80°-90°	39.8	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2466.4	51.2
0°-40°	3601.8	74.7
0°-60°	4448.8	92.3
0°-90°	4820.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4820.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3208	
5°	3211	306
15°	3166	890
25°	2787	1271
35°	1846	1135
45°	726	582
55°	281	265
65°	203	197
75°	128	134
85°	36	40
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3208.3
2.5°	3196.3
5°	3211.3
7.5°	3211.3
10°	3196.3
12.5°	3181.4
15°	3166.4
17.5°	3121.6
20°	3029.0
22.5°	2915.5
25°	2787.1
27.5°	2625.8
30°	2419.7
32.5°	2156.7
35°	1846.1
37.5°	1514.6
40°	1197.8
42.5°	935.0
45°	725.9
47.5°	567.6
50°	442.1
52.5°	346.5
55°	280.8
57.5°	236.0
60°	209.1
62.5°	203.2
65°	203.2
67.5°	197.2
70°	176.2
72.5°	152.4
75°	128.5
77.5°	101.5
80°	77.7
82.5°	56.7
85°	35.9
87.5°	14.9
90°	0.0



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— 0°-180°







(END OF REPORT)